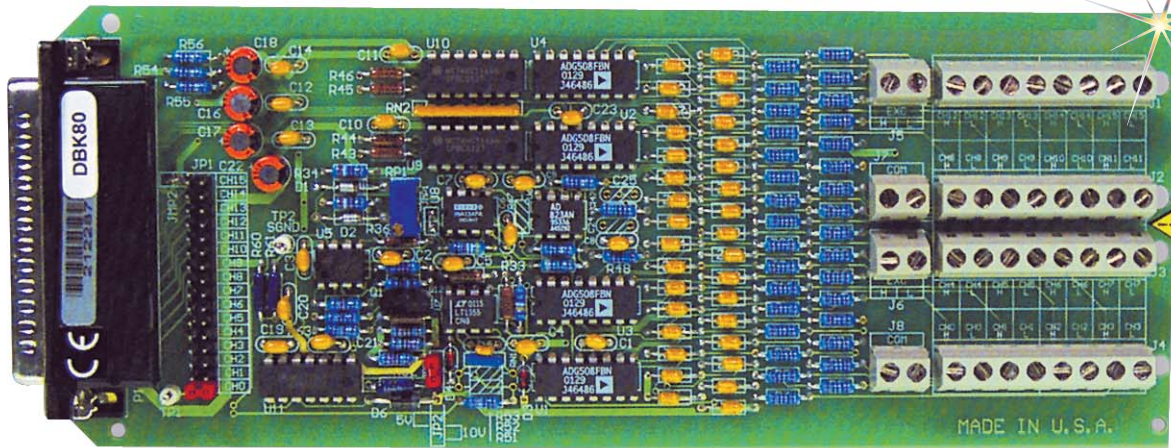


OMB-DBK80

16-Channel Differential Input Voltage Card for use with OMB-DAQBOARD-2000 Series and OMB-LOGBOOK



Model OMB-DBK80

The OMB-DBK80, \$549, shown smaller than actual size

\$549



- ✓ **16 Differential Input Channels**
- ✓ **Unity Gain**
Combines with OMB-BOARD-2000 Series/OMB-LOGBOOK Gains to Provide Full Scale Inputs from $\pm 156\text{mV}$ to $\pm 10\text{V}$ ($\pm 625\text{mV}$ to $\pm 5\text{V}$)
- ✓ **Convenient On-Board Screw Terminal Signal Connection**
- ✓ **Compact Form Factor Mounts in any OMB-DBK Compatible Enclosure**

The OMB-DBK80 has a single, unity-gain input stage on all channels. When coupled with the on-board x1 through x64 programmable input gains on the DAQBOARD-2000 Series and OMB-LOGBOOK product lines, the combination provides full-scale input ranges from $\pm 10\text{V}$ down to $\pm 156\text{mV}$ full-scale inputs.

The OMB-DBK80's ultra-low noise design allows users to expand their input channels up to 256 channels, without incurring additional noise or inaccuracies due to the input expansion cards. Up to 16 OMB-DBK80's can be attached to one A/D system, and can also be combined with any other OMB-DBK series expansion and signal conditioning options.

The OMB-DBK80 also has a +5V or +10V precision voltage source on-board (jumper selectable). This can also be used to bias strain gages, thermistors, or other transducers that require biasing.

The OMB-DBK80 provides 16-channels of differential voltage input for OMB-DAQBOARD-2000 Series and OMB-LOGBOOK measurement systems. The OMB-DBK80 can operate at the full 100 KHz sample rate with no degradation of published performance.

Specifications

Connector: DBK37 male, mates with P1 pin-out on an OMB-DAQBOOK-2000 Series, or OMB-LOGBOOK.

User Connections: Screw-terminals for signal connection.

Gain Ranges: 1, x1

Inputs: 16 differential voltage inputs

Maximum Voltage Range: $\pm 10\text{V}$

Input Impedance: 20M ohm

Accuracy: $\pm 0.025\% + 150 \mu\text{V}$ (typ), $\pm 0.1\% + 250 \mu\text{V}$ (max)

Maximum Input Voltage (without damage): 35V

3dB Bandwidth: 2.6 M Hz

CMRR: 80dB

Excitation Voltage: One channel jumper selectable to +5V or +10V

Excitation Voltage Accuracy: $\pm 0.5\%$

Excitation Voltage Current Limit: 20 mA source, 1 mA sink

Power: 25 mA max from $\pm 15\text{V}$ (with no load on excitation voltage)

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model Number	Price	Description
OMB-DBK80	\$549	16-channel differential input voltage card

Ordering Example: OMB-DBK80 16-channel differential input voltage card, \$549.



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